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RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	/0/6/3,5///
Source:	0/1/2
Date Processed by STIC:	10/28/2003
	~//

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

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http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to:
 - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
 - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/613,377

DATE: 07/28/2003 TIME: 12:57:10

Does Not Comply

Corrected Diskette Needed

Input Set : A:\Sequence Listing -Aphton-0059.txt

Output Set: N:\CRF4\07282003\J613377.raw

3 <110> APPLICANT: Aphton Corporation

5 <120> TITLE OF INVENTION: Liposomes for Vaccine

7 <130> FILE REFERENCE: 1102865-0059

9 <140> CURRENT APPLICATION NUMBER: US/10/613,377

9 <141> CURRENT FILING DATE: 2003-07-03

9 <160> NUMBER OF SEQ ID NOS: (14) 20 (set & 2

11 <170> SOFTWARE: PatentIn version 3.0

ERRORED SEQUENCES

268 <210> SEQ ID NO: 17 269 <211> LENGTH: (18) /6 Shown below

270 <212> TYPE: PRT

271 <213> ORGANISM: Artificial

273 <220> FEATURE:

274 <223> OTHER INFORMATION: Synthetic peptide of amino acid sequence 138-145 of human

chorionic

275 gonadotropin hormone linked to a spacer peptide and conjugated to

276 Diphtheria toxoid

278 <220> FEATURE:

279 <221> NAME/KEY: MOD_RES

280 <222> LOCATION: (1)..(1)

281 <223> OTHER INFORMATION: 5-oxoproline

283 <220> FEATURE:

284 <221> NAME/KEY: MOD RES

285 <222> LOCATION: (16)..(16)

286 <223> OTHER INFORMATION: Cysteine is conjugated to Diphtheria toxoid

288 <400> SEQUENCE: 17

W--> 290 Xaa Ser Asp Thr Pro Ile Pro Gln Ser Pro Pro Pro Pro Pro Cys

E--> 291 1 15 <211> 15 <212> PRT <213> Artificial <220> <223> Synthetic peptide of amino acid sequence 138-145 of human chorionic gonadotropin hormone linked to a spacer peptide and conjugated to Diphtheria toxoid <220> <221> MOD RES <222> (1)..(1) <223> Cysteine is conjugated to Diphtheria toxoid Cys Pro Pro Pro Ser Ser Ser Asp Thr Pro Ile Leu Pro Gln 5 10

<210> 3) not explained in [2207-12237 section] (see p.5 for enor explanation) <211> 5 <212> PRT <213 Artificial <220> <221> MOD RES <222> (1)..(1) <223> Pyroglutamic acid or 5-oxoproline <400> 3 Xaa Gly Pro Trp Leu

5

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/613,377

DATE: 07/28/2003 TIME: 12:57:11

Input Set : A:\Sequence Listing -Aphton-0059.txt

Output Set: N:\CRF4\07282003\J613377.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,13,14,16,17,18,19,20

Use of <220> Feature (NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings. Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32) (Sec.1.823 of new Rules)

seq#:4, 3,5,7,8 J sep.4 10/6/3,377 6

<210> 9
<211> 6
<212> PRT
<213> Artificial, hypothetical

Same end appears in other

requerer

10/6/3,377

<210>	16	
<211>	35	12-17 a t
<212>	PRT	2)011 regusiris
<213>	Artificial /	(3017 represents authors of
1-1/220	more to 23/07 leve	and the state of
nser 1-) 2220		a journal .
\	U.S. Patent 4,767,842	antiele
1/2237 <3027	Anti-peptide antibodies specific for the human chorionic hormone C-terminal fragment (Structure II) corresponding	gonadotropin
	hormone C-terminal fragment (Structure II) corresponding	to 111-145
` , , , ,	Sequence of the beta subunit.	
ment (3007)		
<400>	16	

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/613,377

DATE: 07/28/2003 TIME: 12:57:11

Input Set : A:\Sequence Listing -Aphton-0059.txt

Output Set: N:\CRF4\07282003\J613377.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. in <220> to <223> section, please explain location of n or Xaa, and which

residue n or Xaa represents.

Seq#:1; Xaa Pos. 1,17 Seq#:2; Xaa Pos. 1 Seq#:3; Xaa Pos. 1 Seq#:4; Xaa Pos. 1 Seq#:5; Xaa Pos. 1 Seq#:6; Xaa Pos. 1 Seq#:7; Xaa Pos. 1 Seq#:8; Xaa Pos. 1 Seq#:12; Xaa Pos. 1 Seq#:13; Xaa Pos. 1

Seq#:15; Xaa Pos. 1,10 Seq#:17; Xaa Pos. 1

Seq#:18; Xaa Pos. 1 Seq#:19; Xaa Pos. 17

Which

Volase follow the above please ensure all Xaals are

Sel P/O

7/28/03

10/6/3,370 /0

<210> 19
<211> 17
<212> PRT
<213> Artificial
<220>
<223> Synthetic peptide of GnRH amino acid sequence linked to a spacer peptide and conjugated to Diphtheria toxoid

<220>
<221> MOD_RES
<221> MOD_RES
<222> (1)..(1)
<223> Cysteine is conjugated to Diphtheria toxoid

<400> 19

Cys Pro Pro Pro Pro Pro Ser Ser Glu His Trp Ser Tyr Gly Leu Arg Pro Xaa
1 5 10 15

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/613,377

Input Set : A:\Sequence Listing -Aphton-0059.txt
Output Set: N:\CRF4\07282003\J613377.raw

DATE: 07/28/2003

TIME: 12:57:11

L:9 M:270 C: Current Application Number differs, Replaced Current Application No L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:12 M:283 W: Missing Blank Line separator, <210> field identifier L:29 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0 L:36 M:283 W: Missing Blank Line separator, <220> field identifier L:36 M:256 W: Invalid Numeric Header Field, <220> has non-blank data L:42 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:2 L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0 L:51 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3 L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0 L:65 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:4, <213> ORGANISM: Artificial L:65 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:4, <213> ORGANISM: Artificial L:65 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:65 L:67. M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:4 L:67 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:4 L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0 L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0 L:89 M:283 W: Missing Blank Line separator, <220> field identifier L:92 M:283 W: Missing Blank Line separator, <220> field identifier L:93 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6 L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0 L:108 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7 L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0 L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0 L:136 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9 L:149 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10 L:150 M:283 W: Missing Blank Line separator, <220> field identifier L:159 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11 L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0 L:192 M:283 W: Missing Blank Line separator, <220> field identifier L:201 M:256 W: Invalid Numeric Header Field, <220> has non-blank data L:202 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13 L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0 L:215 M:283 W: Missing Blank Line separator, <220> field identifier L:223 M:283 W: Missing Blank Line separator, <400> field identifier L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0 L:259 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:16, <213> ORGANISM: Artificial L:259 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:16, <213> ORGANISM: Artificial L:259 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:16,Line#:259 L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0 L:291 M:252 E: No. of Seq. differs, <211> LENGTH:Input:18 Found:16 SEQ:17 L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0 L:319 M:283 W: Missing Blank Line separator, <220> field identifier L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0

L:9 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (14) Counted (20)